6625-3072-13-1

TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, AND DIRECT SUPPORT MAINTENANCE MANUAL

SYNTHESIZED SIGNAL GENERATOR AILTECH MODEL 382M

MAR
DEPOSITORY

HEADQUARTERS, DEPARTMENT OF THE ARMY
15 NOVEMBER 1985

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TECHNICAL MANUAL
No. 11-6625-3072-13-1

TM 11-6625-3072-13-1
HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, *15 November 1985*

OPERATOR'S, ORGANIZATIONAL AND DIRECT SUPPORT MAINTENANCE MANUAL
SYNTHESIZED SIGNAL GENERATOR
AILTECH MODEL 382M

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-ME-MP, Fort Monmouth, NJ 07703-5007.

In either case, a reply will be furnished direct to you.

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Copies of this manual may be procured from Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-ME-PEW, Fort Monmouth, NJ 07703-5007.

READEX FICHE best copy available

1. Scope

a. This manual, together with the manufacturer's publications listed below, provides for complete operator's, organizational, and direct support maintenance coverage of AILTECH Synthesized Signal Generator, Model 382M. The associated manufacturer's publication titles and authenticated TM numbers are: AILTECH 380 Synthesized Signal Generator, Model 380K11 Mainframe, TM 11-6625-3072-13-2; AILTECH 360/380 Frequency Synthesizer, P3602.0E1 RF Section Plug-in, TM 11-6625-3072-13-3; and AILTECH PM 3602 AM/FM Phase Modulation Section, TM 11-6625-3072-13-4.

b. This manual includes:

(1) References (appx A).

(2) Components of End Item List (COEIL) (appx B).

(3) Maintenance Allocation Chart (MAC) (appx D).

c. Repair parts and special tools lists are included in TM 11-6625-3072-24P.

2. Consolidated Index of Army Publications and Blank Forms

Refer to the latest issue of DA Pam 310-1 to determine whether there are new editions, changes or additional publications pertaining to the equipment.

3. Maintenance Forms, Records, and Reports

a. Reports of Maintenance and Unsatisfactory Equipment. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 738-750, as contained in Maintenance Management Update.

b. Report of Packaging and Handling Deficiencies. Fill out and forward SF 364 (Report of Discrepancy ROD)) as prescribed in AR 735-11-2/DLAR 4140.55/-NAVMATINST 4355.73A/AFR 400-54/MCO 4430.3F.

c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/-NAVSUPINST 4610.33C/AFR 75-18/MCO P4610.19D/DLAR 4500.15.

4. Reporting Equipment Improvement Recommendations (EIR)

If your equipment needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design. Put it on an SF 368 (Quality Deficiency Report). Mail it to Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-ME-MP, Fort Monmouth, New Jersey 07703-5007. We'll send you a reply.

5. Administrative Storage

Administrative storage of equipment issued to and used by Army activities will have preventive maintenance performed in accordance with the PMCS charts before storing. When removing the equipment from administrative storage the PMCS should be performed to assure operational readiness.

6. Destruction of Army Electronics Materiel

Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2.

APPENDIX A
REFERENCES

DA Pam 310-1	Consolidated Index of Army Publications and Blank Forms.
DA Pam 738-750	The Army Maintenance Management System (TAMMS).
*TM 11-6625-3072-13-2	Operator's, Organizational, and Direct Support Maintenance Manual for AILTECH 380 Synthesized Signal Generator, Model 380K11 Mainframe.
*TM 11-6625-3072-13-3	Operator's, Organizational, and Direct Support Maintenance Manual for AILTECH 360/380 Frequency Synthesizer, P3602.0E1 RF Section Plug-in.
*TM 11-6625-3072-13-4	Operator's, Organizational, and Direct Support Maintenance Manual for AILTECH PM 3602 AM/FM Phase Modulation Section.
*TM 11-6625-3072-24P	Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools Lists for Synthesized Signal Generator, AILTECH Model 382M.
TM 740-90-1	Administrative Storage of Equipment.
TM 750-244-2	Procedures for Destruction of Electronics Materiel to Prevent Enemy Use.

* Not stocked by the Army Publications Center. Copies may be obtained from Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-ME-PEW, Fort Monmouth, New Jersey 07703-5007.

APPENDIX B
COMPONENTS OF END ITEM LIST

Section I. INTRODUCTION

B-1. Scope

This appendix lists integral components of and basic issue items for the Synthesized Signal Generator, AILTECH Model 382M to help you inventory items required for safe and efficient operation.

B-2. General

This Components of End Item List is divided into the following sections:

a. Section II. Integral Components of the End Item. Not applicable. These items, when assembled, comprise the AILTECH 382M and must accompany it whenever it is transferred or turned in. The illustrations will help you identify these items.

b. Section III. Basic Issue Items. Not applicable.

B-3. Explanation of Columns

a. Illustration. This column is divided as follows:

(1) *Figure number.* Indicates the figure number of the illustration on which the item is shown.

(2) *Item number.* The number used to identify item called out in the illustration.

b. National Stock Number. Indicates the National stock number assigned to the item and which will be used for requisitioning.

c. Part Number. Indicates the primary number used by the manufacturer, which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items. Following the part number, the Federal Supply Code for Manufacturers (FSCM) is shown in parentheses.

d. Description. Indicates the Federal item name and, if required, a minimum description to identify the item.

e. Location. The physical location of each item listed is given in this column. The lists are designed to inventory all items in one area of the major item before moving on to an adjacent area.

f. Usable on Code. Not applicable.

g. Quantity Required (Qty Reqd). This column lists the quantity of each item required for a complete major item.

h. Quantity. This column is left blank for use during an inventory. Under the Rcvd column, list the quantity you actually receive on your major item. The Date columns are for your use when you inventory the major item at a later date; such as for shipment to another site.

(Next printed page is B-2)

SECTION II INTEGRAL COMPONENTS OF END ITEM

(1) ILLUSTRATION (A) FIG NO.	(1) ILLUSTRATION (B) ITEM NO.	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION PART NUMBER (FSCM)	(4) LOCATION	(5) USABLE ON CODE	(6) QTY REQD	(7) QUANTITY RCVD	(7) QUANTITY DATE
			SYNTHESIZED SIGNAL GENERATOR, AILTECH MODEL 382 M					

APPENDIX D
MAINTENANCE ALLOCATION

Section I. INTRODUCTION

D-1. General

This appendix provides a summary of the maintenance operations for AILTECH Synthesized Signal Generator, Model 382M. It authorizes categories of maintenance for specific maintenance functions on repairable items and components and the tools and equipment required to perform each function. This appendix may be used as an aid in planning maintenance operations.

D-2. Maintenance Function

Maintenance functions will be limited to and defined as follows:

a. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination.

b. Test. To verify serviceability and to detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. Service. Operations required periodically to keep an item in proper operating condition, i.e., to clean (decontaminate), to preserve, to drain, to paint, or to replenish fuel, lubricants, hydraulic fluids, or compressed air supplies.

d. Adjust. To maintain, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to the specified parameters.

e. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.

f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

g. Install. The act of emplacing, seating, or fixing into position an item, part, module (component or assembly) in a manner to allow the proper functioning of the equipment or system.

h. Replace. The act of substituting a serviceable like type part, subassembly, or module (component or assembly) for an unserviceable counterpart.

i. Repair. The application of maintenance services (inspect, test, service, adjust, align, calibrate, replace) or other maintenance actions (welding, grinding, riveting, straightening, facing, remachining, or resurfacing) to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

j. Overhaul. That maintenance effort (service/action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (i.e., DMWR) in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

k. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours, miles, etc.) considered in classifying Army equipments/components.

D-3. Column Entries

a. Column 1, Group Number. Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.

b. Column 2, Component/Assembly. Column 2 contains the noun names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

c. Column 3, Maintenance Functions. Column 3 lists the functions to be performed on the item listed in column 2. When items are listed without maintenance functions, it is solely for purpose of having the group numbers in the MAC and RPSTL coincide.

d. Column 4, Maintenance Category. Column 4 specifies, by the listing of a "work time" figure in the appropriate subcolumn(s), the lowest level of maintenance authorized to perform the function listed in column 3. This figure represents the active time required to perform that maintenance function at the indicated category of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance categories, appropriate "work time" figures will be shown for each category. The number of task-hours specified by the "work time" figure represents the average time required to restore an item (assembly, subassembly, component, module, end item or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. Subcolumns of column 4 are as follows:

C - Operator/Crew
O - Organizational

F - Direct Support
H - General Support
D - Depot

e. Column 5, Tools and Equipment. Column 5 specifies by code, those common tool sets (not individual tools) and special tools, test, and support equipment required to perform the designated function.

f. Column 6, Remarks. Column 6 contains an alphabetic code which leads to the remark in section IV, Remarks, which is pertinent to the item opposite the particular code.

D-4. Tool and Test Equipment Requirements (Sect. III)

a. Tool or Test Equipment Reference Code. The numbers in this column coincide with the numbers used in the tools and equipment column of the MAC. The numbers indicate the applicable tool or test equipment for the maintenance functions.

b. Maintenance Category. The codes in this column indicate the maintenance category allocated the tool or test equipment.

c. Nomenclature. This column lists the noun name and nomenclature of the tools and test equipment required to perform the maintenance functions.

d. National/NATO Stock Number. This column lists the National/NATO stock number of the specific tool or test equipment.

e. Tool Number. This column lists the manufacturer's part number of the tool followed by the Federal Supply Code for manufacturers (5-digit) in parentheses.

D-5. Remarks (Sect. IV)

a. Reference Code. This code refers to the appropriate item in section II, column 6.

b. Remarks. This column provides the required explanatory information necessary to clarify items appearing in section II.

(Next printed page is D-3)

SECTION II MAINTENANCE ALLOCATION CHART
FOR
SYNTHESIZED SIGNAL GENERATOR AIL TECH MODEL 382M

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY C	O	F	H	D	(5) TOOLS AND EQPT.	(6) REMARKS
00	SYNTHESIZED SIGNAL GENERATOR 382M-183 W/OPT 2,6,7 (56872) MTBF = 12,285 HRS	Inspect		0.1					
		Test				2.0		1 thru 4 6 thru 13,18	A
		Test					2.0		
		Calibrate				2.0		1,2,5,6,7 14 thru 17, 27 thru 31	A
		Replace		0.1					
		Repair				4.0		1 thru 31	A,B
		Repair					4.0		
01	380 K11 MAINFRAME 296414-1	Inspect					0.2		
		Test				0.5		1 thru 4, 6 thru 12	
		Test					1.0		
		Replace				0.1			C
		Repair				1.0		1,2,5,6,7 14 thru 18, 25,26	B
		Repair					4.0		
0101	FRONT PANEL ASSY 296389-1 A1	Inspect				0.1			
		Test				0.5		1 thru 4, 6 thru 12	
		Test					1.0		
		Replace				0.1		25	C
		Repair				1.0		1,2,5,6,7 14 thru 18, 25,26	B
		Repair					4.0		
010101	KEYBOARD ASSY 296306 A1A1	Inspect				0.1			
		Test				0.5			
		Test					1.0		
		Replace				0.1		25	
		Repair				1.0		25,26	
		Repair					4.0		
010102	ENCODER PCB 296308-1 A1A2	Inspect				0.1			
		Test					1.0		
		Replace				0.1		25	
		Repair					4.0		
010103	OPTICAL ENCODER PC66D-100-5 (99820) A1A3	Inspect				0.1			
		Test					1.0		
		Replace				0.1		25	
		Repair					4.0		
0102	LWR ORDER BCD ASSY 298933-2 A2	Inspect				0.1			
		Test				0.5		1 thru 4, 6 thru 12	
		Test					1.0		
		Replace				0.1		25	C
		Repair				1.0		1,2,5,6,7 14 thru 18, 25,26	B
		Repair					4.0		
010201	1 KHZ BCD PCB 299204 A2A1	Inspect				0.1			
		Test					1.0		
		Replace				0.1		25	
		Repair					4.0		
010202	0.1 HZ TO 100 HZ 299214 A2A2-A2A4	Inspect				0.1			
		Test					1.0		
		Replace				0.1		25	
		Repair					4.0		
010203	JUMPER BD ASSY 299225 A2A5	Inspect				0.1			
		Test					1.0		
		Replace				0.1		25	
		Repair					4.0		
010204	BCD FIXED TUNED INTERCONNECTING PWD 299203 A2A6	Inspect				0.1			
		Test					1.0		
		Replace				0.1		25	
		Repair					4.0		

SECTION II MAINTENANCE ALLOCATION CHART FOR SYNTHESIZED SIGNAL GENERATOR AILTECH MODEL 382 M

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQPT.	(6) REMARKS
			C	O	F	H	D		
010205	BCD DIST BD HEADER PWB 299220 A2A7	Inspect							
		Test				0.1	1.0		
		Replace					1.0		
		Repair				0.1		25	
							4.0		
0103	HIGHER ORDER BCD 298934-1 A4	Inspect							
		Test				0.1			
						0.5		1-4 6-12	
		Test					1.0		
		Replace				0.1		25	C
		Repair				1.0		1,2,5-7 14-18 25,26	B
		Repair					4.0		
010301	BCD-1 PCB 298904 A4A1	Inspect							
		Test				0.1			
		Replace					1.0		
		Repair				0.2		25	
							4.0		
010302	BCD-2 PCB 298905 A4A2	Inspect							
		Test				0.1			
		Replace					1.0		
		Repair				0.2		25	
							4.0		
010303	BCD-4 PCB 298906 A4A3	Inspect							
		Test				0.1			
		Replace					1.0		
		Repair				0.2		25	
							4.0		
010304	BCD-8/1 PCB 298907 A4A4	Inspect							
		Test				0.1			
		Replace					1.0		
		Repair				0.2		25	
							4.0		
010305	BCD-8/2 PCB 298908 A4A5	Inspect							
		Test				0.1			
		Replace					1.0		
		Repair				0.2		25	
							4.0		
010306	BUFFER AMP PCB 298909 A4A6	Inspect							
		Test				0.1			
		Replace					1.0		
		Repair				0.2		25	
							4.0		
010307	64/65 MHZ PCB 298910 A4A7 thru A4A10	Inspect							
		Test				0.1			
		Replace					1.0		
		Repair				0.2		25	
							4.0		
010308	10 KHZ BCD PCB 299248 A4A11	Inspect							
		Test				0.1			
		Replace					1.0		
		Repair				0.2		25	
							4.0		
0104	FREQ GEN ASSY 298935-1 A5	Inspect							
		Test				0.1			
						0.5		1-4 6-12	
		Test					1.0		
		Replace				0.1		25	C
		Repair				1.0		1,2,5-7 14-18 25-26	B
		Repair					4.0		
010401	INPUT PCB 298921 A5A1	Inspect							
		Test				0.1			
		Replace					1.0		
		Repair				0.2		25	
							4.0		
010402	10 MHZ PCB 298918 A5A2	Inspect							
		Test				0.1			
		Replace					1.0		
		Repair				0.2		25	
							4.0		

SECTION II MAINTENANCE ALLOCATION CHART
FOR
SYNTHESIZED SIGNAL GENERATOR AILTECH MODEL 382M

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQPT.	(6) REMARKS
			C	O	F	H	D		
010403	60 MHZ PCB 298919 A5A3	Inspect				0.1			
		Test					1.0		
		Replace				0.2		25	
		Repair					4.0		
010404	65 MHZ PCB 298917-2 A5A4	Inspect				0.1			
		Test					1.0		
		Replace				0.2		25	
		Repair					4.0		
010405	64 MHZ PCB 298915 A5A5	Inspect				0.1			
		Test					1.0		
		Replace				0.2		25	
		Repair					4.0		
010406	35/35.5 MHZ PCB 298926 A5A6	Inspect				0.1			
		Test					1.0		
		Replace				0.2		25	
		Repair					4.0		
0105	POWER SUPPLY ASSY 296428 A11	Inspect				0.1			
		Test				0.5		1-4 6-12	
		Test					1.0		
		Replace				0.1		25	C
		Repair				1.0		1,2,5-7 14-18, 25,26	B
		Repair					4.0		
010501	FILTER PCB 298997-1 A11A1	Inspect				0.1			
		Test					1.0		
		Replace				0.2		25	
		Repair					4.0		
010502	+5.2 VOLT REG PCB 298998-1 A11A2	Inspect				0.1			
		Test					1.0		
		Replace				0.2		25	
		Repair					4.0		
010503	-12 VOLT REG PCB 299200-1 A11A3	Inspect				0.1			
		Test					1.0		
		Replace				0.2		25	
		Repair					4.0		
010504	MOTHERBOARD PWB 298928-1 A11A4	Inspect				0.1			
		Test					1.0		
		Replace				0.2		25	
		Repair					4.0		
0106	REAR PANEL ASSY 296407-1 A-12	Inspect				0.1			
		Test				0.5		1-4, 6-12	
		Test					1.0		
		Replace				0.1		25	C
		Repair				1.0		1,2,5-7 14-18, 25,26	B
		Repair					4.0		
010601	RELAY PCB 299261 A12A1	Inspect				0.1			
		Test					1.0		
		Replace				0.2		25	
		Repair					4.0		
0107	LOGIC & PWR PCB 299201-1 A14	Inspect				0.1			
		Test					1.0		
		Replace				0.2		25	
		Repair					4.0		
0108	MPU ASSY 296387-1 A15	Inspect				0.1			
		Test				0.5		1-4, 6-12	
		Test					1.0		
		Replace				0.1		25	C
		Repair				1.0		1,2,5-7 14-18 25-26	B
		Repair					4.0		

SECTION II MAINTENANCE ALLOCATION CHART FOR SYNTHESIZED SIGNAL GENERATOR AILTECH MODEL 382 M

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY C	O	F	H	D	(5) TOOLS AND EQPT.	(6) REMARKS
010801	MPU PCB	Inspect				0.1			
	296351-1	Test					1.0		
	A15A1	Replace				0.2		25	
		Repair					4.0		
010802	LATCH PCB	Inspect				0.1			
	296353-1	Test					1.0		
	A15A2	Replace				0.2		25	
		Repair					4.0		
010803	GPIB PCB	Inspect				0.1			
	296355-1	Test					1.0		
	A15A3	Replace				0.2		25	
		Repair					4.0		
010804	POWER SUPPLY	Inspect				0.1			
	296428-1	Test					1.0		
	A15PSI	Replace				0.2		25	
		Repair					4.0		
0109	CABLE ASSY	Inspect				0.1			
	299297-1	Test				0.1		26	
	W1	Replace				0.1			
		Repair				1.0		25,26	
0110	CABLE ASSY	Inspect				0.1			
	299297-2	Test				0.1		26	
	W2	Replace				0.1			
		Repair				1.0		25,26	
0111	CABLE ASSY	Inspect				0.1			
	299297-3	Test				0.1		26	
	W3	Replace				0.1			
		Repair				1.0		25,26	
0112	CABLE ASSY	Inspect				0.1			
	299297-4	Test				0.1		26	
	W4	Replace				0.1			
		Repair				1.0		25,26	
0113	CABLE ASSY	Inspect				0.1			
	299297	Test				0.1		26	
	W5	Replace				0.1			
		Repair				1.0		25,26	
0114	CABLE ASSY	Inspect				0.1			
	299297-6	Test				0.1		26	
	W6	Replace				0.1			
		Repair				1.0		25,26	
0115	CABLE ASSY	Inspect				0.1			
	299297-7	Test				0.1		26	
	W7	Replace				0.1			
		Repair				1.0		25,26	
0116	CABLE ASSY	Inspect				0.1			
	299297-8	Test				0.1		26	
	W8	Replace				0.1			
		Repair				1.0		25,26	
0117	CABLE ASSY	Inspect				0.1			
	299297-9	Test				0.1		26	
	W9	Replace				0.1			
		Repair				1.0		25,26	
0118	CABLE ASSY	Inspect				0.1			
	299297-10	Test				0.1		26	
	W10	Replace				0.1			
		Repair				1.0		25,26	
0119	CABLE ASSY	Inspect				0.1			
	299297-12	Test				0.1		26	
	W12	Replace				0.1			
		Repair				1.0		25,26	

SECTION II MAINTENANCE ALLOCATION CHART FOR SYNTHESIZED SIGNAL GENERATOR AILTECH MODEL 382 M

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQPT.	(6) REMARKS
			C	O	F	H	D		
0120	CABLE ASSY 299297-14 W14	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0121	CABLE ASSY 299297-18 W18	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0122	CABLE ASSY 299297-23 W23	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0123	CABLE ASSY 299297-24 W24	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0124	CABLE ASSY 296401-1	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0125	CABLE ASSY 296402-1	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0126	CABLE ASSY 296409-1	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0127	CABLE ASSY 296409-4	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0128	CABLE ASSY 294603-1	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0129	LINE CORD 80-1245 (05245)	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
02	FREQ EXTENDER 3600E1	Inspect				0.1			
		Test				0.5		1-4, 6-12	
		Test					1.0		
		Replace				0.1		25	C
		Repair				1.0		1,2,5-7 14-18, 25,26	B
		Repair					4.0		
0201	24/33 OSC ASSY 298938 A6	Inspect				0.1			
		Test				0.5		1-4, 6-12	
		Test					1.0		
		Replace				0.1		25	C
		Repair				1.0		1,2,5-7 14-18, 25,26	B
		Repair					4.0		
020101	24/33 MHZ PCB 298949 A6A1	Inspect				0.1			
		Test					1.0		
		Replace				0.2		25	
		Repair					4.0		

SECTION II MAINTENANCE ALLOCATION CHART FOR

SYNTHESIZED SIGNAL GENERATOR AILTECH MODEL 382 M

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY C	O	F	H	D	(5) TOOLS AND EQPT.	(6) REMARKS
020102	24/33 MHZ PCB 298952 A6A2	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	 25	
020103	24/33 MHZ PCB 298953 A6A3	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	 25	
0202	366 MHZ ASSY 298961 A7	Inspect Test Test Replace Repair Repair				0.1 0.5 0.1 1.0 	 1.0 4.0	 1-4, 6-12 25 1,2,5-7 14-18, 25,26 	 C B
020201	366 MHZ PCB 298962 A7A1	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	 25	
020202	366 MHZ PCB 298963 A7A2	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	 25	
0203	361/370 MHZ ASSY 298954 A8	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	 25	
0204	330/331 MHZ ASSY 298954 A9	Inspect Test Test Replace Repair Repair				0.1 0.5 0.1 1.0 	 1.0 4.0	 1-4, 6-12 25 1,2,5-7 24-18 25,26 	 C B
020401	330/331 MHZ ASSY 298965 A9A1	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	 25	
020402	330/331 MHZ ASSY 298996 A9A2	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	 25	
0205	HIGH FREQ SUBASSY 298937 A10	Inspect Test Test Replace Repair Repair				0.1 0.5 0.1 1.0 	 1.0 4.0	 1-4, 6-12 25 1,2,5-7 14-18, 25,26 	 C B
020501	337 MHZ PCB 298995 A10A1	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	 25	
020502	337 MHZ PCB 298996 A10A2	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	 25	

SECTION II MAINTENANCE ALLOCATION CHART FOR

SYNTHESIZED SIGNAL GENERATOR AILTECH MOCEL 382 M

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQPT.	(6) REMARKS
			C	O	F	H	D		
020503	30/40 MHZ PCB 298901 A10A3	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	25	
020504	330 MHZ PCB 298902 A10A4	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	25	
020505	1-5 MHZ PCB 298900 A10A5	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	25	
020506	29 MHZ PCB 298903 A10A6	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	25	
03	RF SECTION PLUG IN P3602.0E1 W/OPT 183 295914-2	Inspect Test Test Replace Repair Repair				0.1 0.5 0.1 1.0 	 1.0 4.0	6,20 2,6 7,14, 19-24	 C B
030201	INPUT PCB 298965-2 A2A1	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	25	
030202	BUFFER PCB 298993-2 A2A3	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	25	
030203	OUTPUT CONVERT 298983-2 A2A5	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	25	
0303	LEVEL REFERENCE 296754-2 A3	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	25	
0304	FILTER AMPLIFIER 298971-3 A4	Inspect Test Test Replace Repair Repair				0.1 0.5 0.1 1.0 	 1.0 4.0	6,20 2,6, 7,14, 19-24	 C B
030401	INPUT PCB 298981 A4A1	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	25	
030402	OUTPUT PCB 298979-2 A4A2	Inspect Test Replace Repair				0.1 0.2	 1.0 4.0	25	
0305	VHF OSC ASSY 295529 A5	Inspect Test Test Replace Repair Repair				0.1 0.5 0.1 1.0 	 1.0 4.0	6,20 2,6, 7,14, 19-24	 C B

SECTION II MAINTENANCE ALLOCATION CHART
FOR
SYNTHESIZED SIGNAL GENERATOR AILTECH MODEL 382 M

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQPT.	(6) REMARKS
			C	O	F	H	D		
030501	VHF OSC PCB 295596 A5A1	Inspect Test Replace Repair				0.1 0.2 	 1.0 4.0	 25 	
030502	ISOLATION PCB 299264 A5A2	Inspect Test Replace Repair				0.1 0.2 	 1.0 4.0	 25 	
030503	SW AMPL PCB 298988 A5A3	Inspect Test Replace Repair				0.1 0.2 	 1.0 4.0	 25 	
030504	SW DOUBLER PCB 298989-2 A5A4	Inspect Test Replace Repair				0.1 0.2 	 1.0 1.0	 25 	
0306	FILTER CONV ASSY 295511-1 A6	Inspect Test Test Replace Repair Repair				0.1 0.5 0.1 1.0 	 1.0 4.0	 6,20 2,6, 7,14, 19-24 	 C B
030601	CONVERTER PCB 2995505 A6A1	Inspect Test Replace Repair				0.1 0.5 	 1.0 4.0	 25 	
030602	BANDPASS FILTER PCB 298459 A6A2	Inspect Test Replace Repair				0.1 0.5 	 1.0 4.0	 25 	
0307	MULTIPLIER SECTION 295536 A7	Inspect Test Test Replace Repair Repair				0.1 0.5 0.1 1.0 	 1.0 4.0	 6,20 2,6, 7,14, 19-24 	 C B
030701	PWR AMPL PCB 296636 A7A1	Inspect Test Replace Repair				0.1 0.5 	 1.0 4.0	 25 	
030702	MULT FILTER ASSY 295947 A7A2	Inspect Test Replace Repair				0.1 0.2 	 1.0 4.0	 25 	
030703	AMPLIFIER 295290 A7A3	Inspect Test Replace Repair				0.1 0.2 	 1.0 4.0	 25 	
030704	MULT FILTER PCB 295260 A7A4	Inspect Test Replace Repair				0.1 0.2 	 1.0 4.0	 25 	
0308	OUTPUT SECTION ASSY 295530 A8	Inspect Test Test Replace Repair Repair				0.1 0.5 0.1 1.0 	 1.0 4.0	 6,20 2,6, 7,14, 19-24 	 C B

SECTION II MAINTENANCE ALLOCATION CHART FOR SYNTHESIZED SIGNAL GENERATOR AILTECH MODEL 382 M

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQPT.	(6) REMARKS
			C	O	F	H	D		
030801	FREQ SCALER 295868-2 A8A1	Inspect Test Replace Repair				0.1 0.2	1.0 4.0	25	
030802	OUTPUT AMPL 295451 A8A2	Inspect Test Replace Repair				0.2 0.2	1.0 4.0	25	
0309	LOGIC CONVERTER 295319-4 A9	Inspect Test Replace Repair				0.1 0.2	1.0 4.0	25	
0310	STATIONARY PANEL 295696-2 A10	Inspect Test Replace Repair				0.1 0.2	1.0 4.0	25	
0311	PLUG-IN DIST ASSY 299292 A11	Inspect Test Replace Repair				0.1 0.2	1.0 4.0	25	
0312	ATTENUATOR 295599 A12	Inspect Test Replace Repair				0.1 0.2	1.0 4.0	25	
0313	ATTENUATOR CONT PCA 295683 A13	Inspect Test Replace Repair				0.1 0.2	1.0 4.0	25	
0314	MIXER PCA MD525-4 (21912) A15	Inspect Test Replace Repair				0.1 0.2	1.0 4.0	25	
0315	LOW PASS FILTER 295687-2 A16	Inspect Test Replace Repair				0.1 0.2	1.0 4.0	25	
0316	BANDPASS FILTER 5B120/3300/5500/0 (18203) A17	Inspect Test Replace Repair				0.1 0.2	1.0 4.0	25	
0317	BANDPASS FILTER 5B120/4000/3000/0 (18203) A18	Inspect Test Replace Repair				0.1 0.2	1.0 4.0	25	
0318	LOW PASS FILTER 56380-X4000-0P0 (18203)	Inspect Test Replace Repair				0.1 0.2	1.0 4.0	25	
0319	LOW PASS FILTER 4L250-4500/00 (18203) A20	Inspect Test Replace Repair				0.1 0.2	1.0 4.0	25	
0320	CABLE ASSY 299297-30 W1	Inspect Test Replace Repair				0.1 0.1 0.1 1.0		26 25,26	
0321	CABLE ASSY 299297-31 W2	Inspect Test Replace Repair				0.1 0.1 0.1 1.0		26 25,26	

SECTION II MAINTENANCE ALLOCATION CHART FOR SYNTHESIZED SIGNAL GENERATOR AILTECH MODEL 382 M

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQPT.	(6) REMARKS
			C	O	F	H	D		
0322	CABLE ASSY 299297-32 W3	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0323	CABLE ASSY 299297-33 W4	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0324	CABLE ASSY 299297-34 W5	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0325	CABLE ASSY 299297-62 W6	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0326	CABLE ASSY 299297-64 W7	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0327	CABLE ASSY 299297-37 W8	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0328	CABLE ASSY 299297-63 W9	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0329	CABLE ASSY 299297-68 W10	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0330	CABLE ASSY 299297-65 W11	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0331	CABLE ASSY 299297-66 W12	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0332	CABLE ASSY 299297-42 W13	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0333	CABLE ASSY 299297-43 W14	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0334	CABLE ASSY 299297-45 W15	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0335	CABLE ASSY 295465 W16	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0336	CABLE ASSY 295466 W17	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	

SECTION II MAINTENANCE ALLOCATION CHART FOR

SYNTHESIZED SIGNAL GENERATOR AILTECH MODEL 382 M

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQPT.	(6) REMARKS
			C	O	F	H	D		
0337	CABLE ASSY 295946 W18	Inspect Test Replace Repair				0.1 0.1 0.1 1.0		 26 25,26	
0338	CABLE ASSY 295468 W19	Inspect Test Replace Repair				0.1 0.1 0.1 1.0		 26 25,26	
0339	CABLE ASSY 295464 W20	Inspect Test Replace Repair				0.1 0.1 0.1 1.0		 26 25,26	
0340	CABLE ASSY 299297-67 W21	Inspect Test Replace Repair				0.1 0.1 0.1 1.0		 26 25,26	
04	PM3602 MODULATION SECTION ASSEMBLY 295206	Inspect Test Test Replace Repair Repair				0.1 0.5 0.1 1.0 	 1.0 4.0	 14,16, 17,21, 27-31 	 C B
0401	MODULATION CONTROL 295236 A1	Inspect Test Test Replace Repair Repair				0.1 0.5 0.1 1.0 	 1.0 4.0	 14,16, 17,21, 27-31 	 C B
040101	SWITCH COUNTER ASSY 295232 A1A1	Inspect Test Replace Repair				0.1 0.1 	 1.0 4.0	 25 	
040102	PHASE MODULATOR 295211 A1A2	Inspect Test Replace Repair				0.1 0.1 	 1.0 4.0	 25 	
040103	MODULATION OSC 295242 A1A3	Inspect Test Replace Repair				0.1 0.1 	 1.0 4.0	 25 	
0402	PHASE LOCK LOOP 295237 A2	Inspect Test Test Replace Repair Repair				0.1 0.5 0.1 1.0 	 1.0 4.0	 14,16, 17,21, 27-31 	 C B
040201	29 MHZ OSC 295273 A2A1	Inspect Test Replace Repair				0.1 0.1 	 1.0 4.0	 25 	
040202	DIVIDER CIRCUIT 295213 A2A2	Inspect Test Replace Repair				0.1 0.1 	 1.0 4.0	 25 	
040203	PHASE DETECTOR 295207 A2A3	Inspector Test Replace Repair				0.1 0.1 	 1.0 4.0	 25 	

SECTION II MAINTENANCE ALLOCATION CHART FOR

SYNTHESIZED SIGNAL GENERATOR AILTECH MODEL 382 M

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQPT.	(6) REMARKS
			C	O	F	H	D		
0403	BEZEL ASSY 295238 A3	Inspect				0.1			
		Test					1.0		
		Replace				0.1		25	
		Repair					4.0		
0404	LOGIC CONTROL 295234 A4	Inspect				0.1			
		Test					1.0		
		Replace				0.1		25	
		Repair					4.0		
0405	CABLE ASSY 299297-48 W1	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0406	CABLE ASSY 299297-49 W2	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	
0407	CABLE ASSY 299297-52 W3	Inspect				0.1			
		Test				0.1		26	
		Replace				0.1			
		Repair				1.0		25,26	

SECTION III TOOL AND TEST EQUIPMENT REQUIREMENTS FOR

SYNTHESIZED SIGNAL GENERATOR AILTECH MODEL 382 M

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL/NATO STOCK NUMBER	TOOL NUMBER
1	H	COUNTER, SYSTON-DONNER 6244A OR AN/USM-207A	6625-00-044-3228	
2	H	FUNCTION GEN, WAVETEK 180		
3	H	MODULATION METER, BOOTON 82AD OR IF-2300B	6625-01-063-1570	
4	H	NOISE ANALYZER, FEL 800B OR TS-2513	5865-01-074-4199	
5	H	MODULATION METER, DANA 9008	6625-01-075-3761	
6	H	POWER METER, BOONTON 42B	6625-01-050-8800	
7	H	SPECTRUM ANALYZER, AILTECH 757 OR IP-1216	6625-00-424-4370	
8	H	VARIABLE ATTENUATOR, HP394 OR CN-970/G	5985-00-993-1377	
9	H	VARIABLE ATTENUATOR, HP394A	5985-00-919-8548	
10	H	VOLTMETER, RMS, HP8405A OR ME-512/U	6625-00-929-1897	
11	H	WAVE ANALYZER, HP3590	6625-00-401-5353	
12	H	X-Y RECORDER, JERROLD AV-5 OR 7034A	6625-01-008-2113	
13	H	SYNTHESIZED SIGNAL GENERATOR AILTECH 380	N/A	
14	H	SERVICE KIT, AILTECH 299252	N/A	
15	H	ATTENUATOR, 10 0B, NARDA	5985-00-483-4400	
16	H	DIGITAL VOLTMETER, ME-510/U OR SYSTRON-DONNER 7004	6625-01-045-4643	
17	H	FREQUENCY COUNTER, DANA 7720 OR 1034A	6625-01-080-7690	
18	H	PRESCALER, WESTON 1259	N/A	
19	H	ATTENUATOR, 6DB, NARDA 757C	5985-01-078-6820	
20	H	FREQUENCY COUNTER, SYSTRON-DONNER 6054B	6625-01-055-2827	
21	H	OSCILLOSCOPE, TEKTRONIX 454 OR 465	6625-00-322-8716	
22	H	AC VOLTMETER, BOONTON 93AD OR AN/USM-223	6625-00-999-7465	
23	H	TEST OSCILLATOR, GENERAL RADIO 1309-A OR SG-1128/U	6625-00-450-7590	
24	H	PRESCALER, WESTON 6853	N/A	
25	H	ROOL KIT, TK-105/G	5180-00-610-8177	
26	H	MULTIMETER, PSM-45	6625-01-139-2512	
27	H	SPECTRUM ANALYZER, AILTECH 707 OR PL-1406/U	6625-00-140-0156	
28	H	FUNCTION GEN, WAVETEK 142	6625-00-202-3585	
29	H	ADAPTER, SMB "T" SEALECTRO 51-085-0000	5935-00-225-9929	
30	H	ADAPTER BNC FEMALE TO SMB PLUG SEALECTRO 51-077-6801	5935-00-414-0960	
31	H	GENERATOR PULSE AND DATA: HEWLETT PACKARD 8170A	6625-01-132-6121	

SECTION IV. REMARKS

REFERENCE CODE	REMARKS
A	TEST, REPAIR, AND CALIBRATE BY USATSG AT GENERAL SUPPORT.
B	REPAIR CONSISTS OF REPLACEMENT OF SUBASSEMBLIES AND COMPONENTS AS REQUIRED.
C	ITEM IS INITIAL ISSUE ONLY.

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

SOMETHING WRONG WITH THIS PUBLICATION?

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)
Commander
Stateside Army Depot
ATTN: AMSTA-US
Stateside, N.J. 07703-5007

DATE SENT: 10 July 1975

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM 11-5840-340-12	23 Jan 74	Radar Set AN/PRC-76

BE EXACT. PIN-POINT WHERE IT IS

PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO
2-25	2-28		
3-10	3-3		3-1
5-6	5-8		
		F03	

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

Recommend that the installation antenna alignment procedure be changed throughout to specify a 2° IFF antenna lag rather than 1°.

REASON: Experience has shown that with only a 1° lag, the antenna servo system is too sensitive to wind gusting in excess of 25 knots, and has a tendency to rapidly accelerate and decelerate as it hunts, causing strain to the drive train. Hunting is minimized by adjusting the lag to 2° without degradation of operation.

Item 5, Function column. Change "2 db" to "3db."

REASON: The adjustment procedure for the TRANS POWER FAULT indicator calls for a 3 db (500 watts) adjustment to light the TRANS POWER FAULT indicator.

Add new step f.1 to read, "Replace cover plate removed in step e.1, above."

REASON: To replace the cover plate.

Zone C 3. On J1-2, change "+24 VDC to "+5 VDC."

REASON: This is the output line of the 5 VDC power supply. +24 VDC is the input voltage.

SAMPLE

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER	SIGN HERE
SSG I. M. DeSpiritof 999-1776	SSG I. M. DeSpiritof

DA FORM 1 JUL 79 2028-2

PREVIOUS EDITIONS ARE OBSOLETE.

P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS

TEAR ALONG PERFORATED LINE

REVERSE OF DA FORM 2028-2

TEAR ALONG PERFORATED LINE

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